



SDI Review Form 1.5

PART A:

Journal Name:	American Chemical Science Journal
Manuscript Number:	MS: 2012/ACSj/1835
Title of the Manuscript:	CORROSION INHIBITION OF ALUMINIUM IN ACIDIC MEDIUM BY DIFFERENT EXTRACTS OF OCIMUM GRATISSIMUM

(Note: Title of different sections as proposed below may differ in case of review paper)



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PART B: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part and write here 'Corrected' if not agreed, give suitable justifications)
General comment:	Authors of above mentioned article tested the influence of different concentrations of <i>Ocimum Gratissimum</i> on corrosion of aluminium in distilled water, ethanol and chloride solutions. The most important mistakes are following: 1. The aim of work should be placed in INTRODUCTION part of the paper. 2. Please note that you placed equation (2) which was can apply to calculation of corrosion rate (CR). Unfortunately, you can not calculation of CR for aluminium in investigated solutions. You have to calculation of CR for Al in presence or absence of inhibitor, and received results of calculations you should give in table. 3. Moreover, the consequence of above mentioned mistake is the impossibility of calculation the degree of surface coverage of aluminium according to equation (3). 4. The results inhibition efficiency were listed in Table 1 and 2 and in Figure 3 and 4. Please note that results investigation should be presented in one form. In this case you should delete Figure 3 and 4. 5. Description relating to Fig. 6. is incorrect, therefore that curves do not apply to Langmuir adsorption isotherm. You must delete this Figure, and you should modify text of article relating to adsorption of inhibitor on surface of Al in raised temperature. 6. The adsorption of inhibitor on surface of Al was regarded as a substitution process (Equation (4)). You must calculate of equilibrium constant (K) reaction of adsorption of inhibitor on metal surface, and to replenish discussion regarding of mechanism investigated process. 7. Title-page of article, all Equations and Tables are drawn up exceptionally carelessly. You should draw up they once again according to universally applied norms. Moreover, you must correct lots of small literal mistakes for example should be:	1.0 The aim of the work has been corrected as shown in the journal format in the abstract. 2.0 All the equations that needed correction in the article have been corrected as shown in the text.



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	303/333 K, kJ/mol, IE(%) ect. 8. The values listed in Tables you should quote with exactitude according to example; 0.0.	
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Specific comments:	The results obtained showed that the extracts of <i>Ocimum Gratissimum</i> (OG) inhibit of aluminium (Al) corrosion. The inhibition efficiency (IE) of extracts increases as concentration of OG increases. Moreover, study reveled that IE decreases as temperature increases. The inhibition efficiency of <i>Ocimum Gratissimum</i> extracts get smaller in following order: $H_2O > C_2H_5OH > HCl$. Thermodynamics consideration shows that adsorption of <i>Ocimum Gratissimum</i> on Al is spontaneous, and takes a course according to Langmuir and Flory-Huggins adsorption isotherms. The Authors have placed nine figures, as well as five tables. The paper contains some original data and results which have not been published yet. The work has scientific character. The article was written carelessly.	The tables and figures were used to elucidate the results of the work.
	The title of work is incorrect, here proposal: <i>Corrosion Inhibition of Aluminium by Ocimum Gratissimum Leaf Extract</i> . The abstract was written correctly.	The title of the work is adequate.
Introduction (Is the problem/objective of this study original, important and well defined?)	The Introduction was written correctly.	OK
Are all the references cited relevant, adequate? Are there any other suitable current references authors need to cite?	The Authors prepared correctly the review of literature of relating to green inhibitors of metals.	OK
Materials & methods (Kindly comment on the suitability of the methods. Sufficient details of the methods should be provided to allow peers to evaluate and/or replicate the work)	The applied technique (gravimetric) is insufficient. The Authors should apply electrochemical methods additionally.	Electrochemical method will be used in subsequent research work.
Results & discussion (Kindly comment on: 1. Are the data well controlled and robust? 2. Authors should provide relevant references during discussion. 3. Discussion and conclusions should be based on actual facts and figures. Biased claims should be pointed out. 4. Are statistical analyses must for this paper? If yes, have sufficient and appropriate statistical analyses been carried out?)	The reviewed work causes impression unfinished. The interpretation of results be made very superficially, essential problems were skipped or incorrectly described. The reviewed work causes impression unfinished. The interpretation of results be made very superficially, essential problems were skipped or incorrectly described.	The results as shown in the tables and figures were very explicit.
Are there any ethical or competing interest issues?		No
Conclusion (Is the conclusion supported by the data, discussed inside the manuscript? Conclusions should not be biased and should be based on the data, presented inside the manuscript only)	The Conclusion was written correctly.	OK



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References	They used twenty one of literature sources. All literature positions became well-chosen.	OK
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